

QP CODE: 112006 (New Scheme)

Reg. No: .....

**First Year B.Pharm Degree Supplementary Examinations  
December 2017****PHARMACEUTICAL CHEMISTRY - II  
(Organic Chemistry)****(2012 - Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Explain the reaction mechanism of Perkin's and Cannizzaro's reactions
2. Explain in detail the nucleophilic addition reactions of aldehydes and ketones.
3. Discuss with mechanism of the nitration of bromobenzene

**Short notes****(14x5=70)**

4. Two methods of preparation and reactions of carboxylic acid
5. Bayer's strain theory and its limitations
6. Hinsberg method of separation
7. Williamson's synthesis and hydroiodic action on ether
8. Explain the acidity of phenols
9. Kolbe-Schmidt reaction with mechanism
10. Two methods of synthesis of alkynes and explain keto-enol tautomerism
11. Explain hydrogen bonding and mention its significance.
12. Difference between hyper conjugation and hybridization
13. Malonic and acetoacetic esters and their importance in synthesis
14. Classification of amines with its relative basicity
15. Kharasch effect with example
16. Classify alcohol with examples and give one method of preparation of each class of alcohol
17. Acidity of nitro compounds

\*\*\*\*\*